WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET Nº 1945

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation Miss Eff. Pay — Ft.

18 District Pratt Date 1/2/84 Customer Order No. —

P220 COMPANY NAME Pickrell Drilling Company

ADDRESS 205 Litwin Bldg

LEASE AND WELL NO. Hufford "A" #1 COUNTY Kingman STATE Ks Sec. 23 Twp. 30 Rge. 7W

#1 "A" HUFFORD

Mail Invoice To Same No. Copies Requested 5
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested From 4139 ft. to 4149 ft. Total Depth 4149 ft.

Packer Depth 4134 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.

Packer Depth 4139 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4141 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 4144 ft. Recorder Number 13552 Cap. 4050

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Pickrell Rig #10 Drill Collar Length 180 I. D. 2 1/4 in.

Mud Type Starch Viscosity 48 Weight Pipe Length — I. D. — in.

Weight 9.6 Water Loss 11.2 cc. Drill Pipe Length 3938 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make — Serial Number — Anchor Length 10 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods

Recovered 125 ft. of Sl. Gas Cut Mud (Few specks of oil)

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Chlorides ____ P.P.M. Sample Jars used ____ Remarks: Read outside chart

Read bottom Chart

Time On Location	12:30 A.M. P.M.	Time Pick Up Tool	1:30 A.M. P.M.	Time Off Location	10:30 A.M. P.M.
Time Set Packer(s)	3:25 A.M. P.M.	Time Started Off Bottom	7:55 A.M. P.M.	Maximum Temperature	118°

Initial Hydrostatic Pressure		(A) 2206	P.S.I.	
Initial Flow Period	Minutes 30	(B) 60	P.S.I. to (C) 60	P.S.I.
Initial Closed In Period	Minutes 60	(D) 831	P.S.I.	
Final Flow Period	Minutes 90	(E) 60	P.S.I. to (F) 81	P.S.I.
Final Closed In Period	Minutes 90	(G) 973	P.S.I.	
Final Hydrostatic Pressure		(H) 2186	P.S.I.	

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Bill Klaver 276
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test	$ 595.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 595.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-2 Test Ticket No. 1945

Recorder No. 13552 Capacity Location Ft

Clock No. — — — — Elevation Well Temperature °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2206	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	58	P.S.I.	First Flow Pressure	Mins.	Mins.
C	First Final Flow Pressure	59	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D	Initial Closed-in Pressure	827	P.S.I.	Second Flow Pressure	Mins.	Mins.
E	Second Initial Flow Pressure	64	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F	Second Final Flow Pressure	78	P.S.I.			
G	Final Closed-in Pressure	983	P.S.I.			
H	Final Hydrostatic Mud	2125	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	58
P 2	5	58
P 3	10	58
P 4	15	58
P 5	20	58
P 6	25	59
P 7	30	
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	59
3	100
6	160
9	216
12	268
15	315
18	366
21	412
24	454
27	494
30	532
33	569
36	605
39	640
42	675
45	706
48	732
51	760
54	783
57	807
60	827

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	64
5	64
10	65
15	66
20	68
25	70
30	72
35	74
40	75
45	76
50	77
55	78
60	78
65	
70	
75	78
80	78
85	78
90	

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	78
3	138
6	207
9	269
12	327
15	384
18	433
21	476
24	518
27	557
30	591
33	627
36	659
39	689
42	718
45	743
48	766
51	786
54	808
57	827
60	844

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WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ F

Clock No. _____ Elevation _____ Well Temperature _____ °

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1		63				63	862
P 2		66				66	879
P 3		69				69	894
P 4		72				72	908
P 5		75				75	922
P 6		78				78	930
P 7		81				81	945
P 8		84				84	955
P 9		87				87	967
P10		90				90	976
P11		93				93	983
P12		96				96	
P13		99				99	
P14		102				102	
P15		105				105	
P16		108				108	
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	

TCK# 1945

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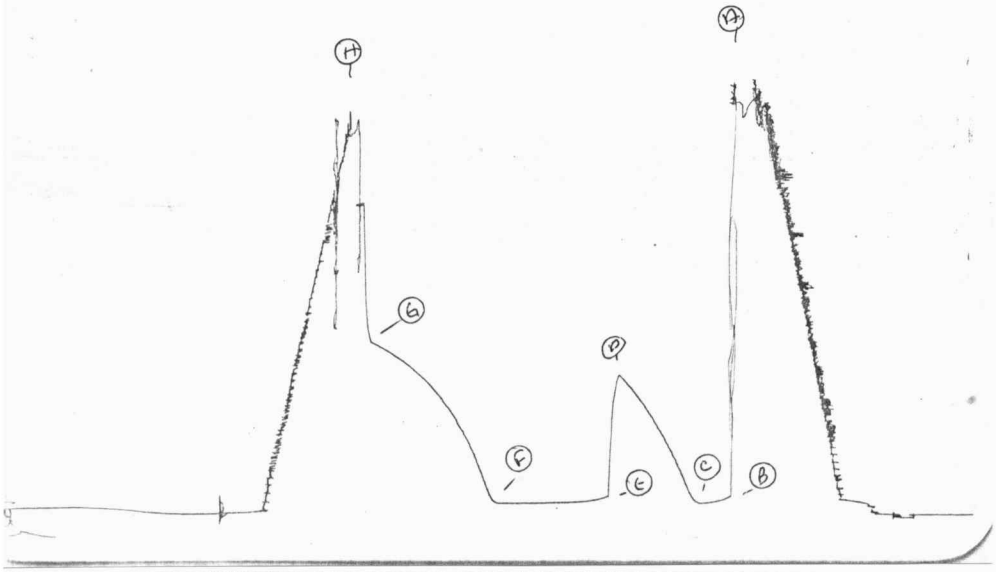

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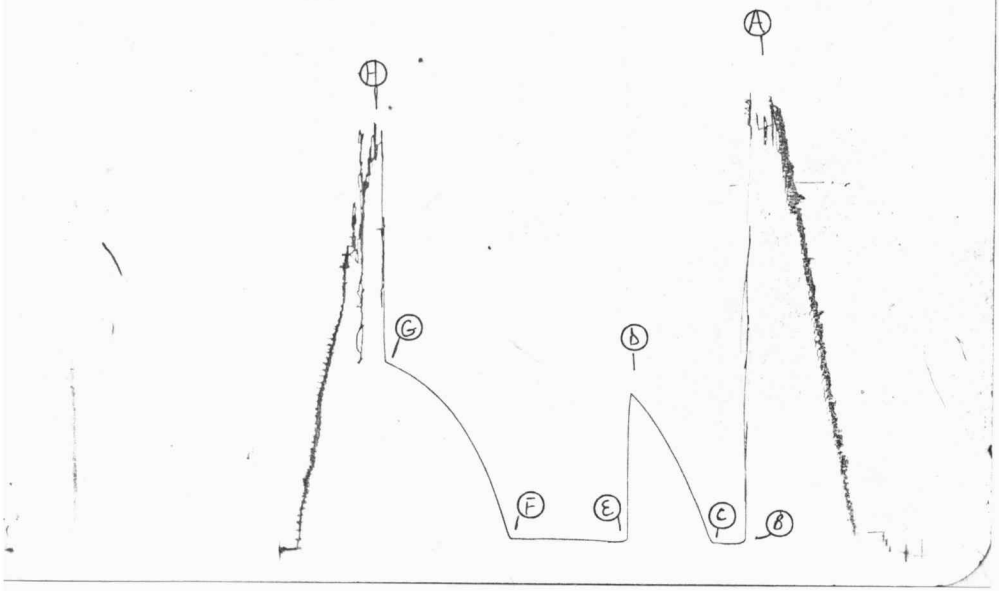
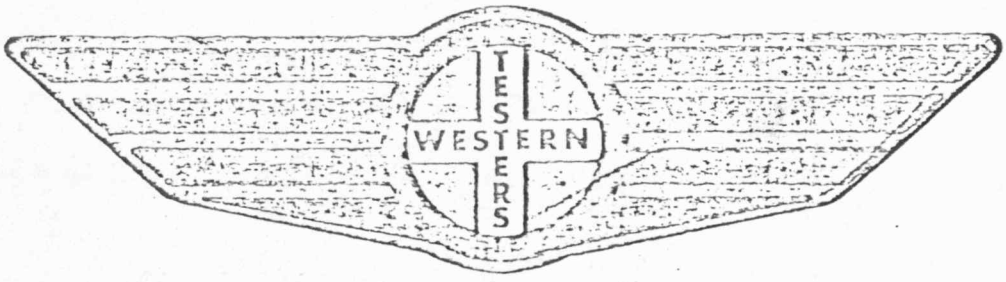


FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. #1 "A" HUFFORD Sec. 23 Twp. 30S Rge. 7W Test No. 1 Date 1/2/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 1/2/84 TICKET #1945
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "A" HUFFORD
WELL: 1 TEST: 1 GEOLOGIST: B. KLEVER
ELEVATION (KB): 0 FORMATION: MISSISSIPPI
SECTION: 23 TOWNSHIP: 30S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13552 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4139 FT TO: 4149 FT TOTAL DEPTH: 4149 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4134 FT SIZE: 6 5/8 IN PACKER DEPTH: 4139 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL #10
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 9.6 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 26000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3938 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 10 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 F.H. IN

BLOW: STRONG BLOW THROUGHOUT FLOW PERIODS.

RECOVERED: 125 FT OF: SLIGHT GAS CUT MUD (FEW SPECKS OF OIL)
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: READ OUTSIDE CHART - RECORDER 13552.

TIME SET PACKER(S): 3:25 A.M. TIME STARTED OFF BOTTOM: 7:55 A.M.
WELL TEMPERATURE: 118 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2206	PSI	
INITIAL FLOW PERIOD	MIN: 25	(B) 58	PSI TO (C) 59	PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(D) 827	PSI	
FINAL FLOW PERIOD	MIN: 85	(E) 64	PSI TO (F) 78	PSI
FINAL CLOSED IN PERIOD	MIN: 93	(G) 983	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2125	PSI	

WESTERN TESTING CO. INC.

PRESSURE DATA

DATE: 1/2/84 TICKET #1945

CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "A" HUFFORD

WELL: 1 TEST: 1 GEOLOGIST: B. KLEVER

ELEVATION (KB): 0 FORMATION: MISSISSIPPI

SECTION: 23 TOWNSHIP: 30S

RANGE: 7W COUNTY: KINGMAN STATE: KANSAS

GAUGE SN #13552 RANGE: 4050 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2206	PSI
(B) FIRST INITIAL FLOW PRESSURE:	58	PSI
(C) FIRST FINAL FLOW PRESSURE:	59	PSI
(D) INITIAL CLOSED-IN PRESSURE:	827	PSI
(E) SECOND INITIAL FLOW PRESSURE:	64	PSI
(F) SECOND FINAL FLOW PRESSURE:	78	PSI
(G) FINAL CLOSED-IN PRESSURE:	983	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2125	PSI
WELL TEMPERATURE:	118	'F

OPEN TOOL: 3:25 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	25 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	90 MIN	85 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	93 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	58	0	59	0	64	0	78
2	5	58	3	100	5	64	3	138
3	10	58	6	160	10	65	6	207
4	15	58	9	216	15	66	9	269
5	20	58	12	268	20	68	12	327
6	25	59	15	315	25	70	15	384
7			18	366	30	72	18	433
8			21	412	35	74	21	476
9			24	454	40	75	24	518
10			27	494	45	76	27	557
11			30	532	50	77	30	591
12			33	569	55	78	33	627
13			36	605	60	78	36	659
14			39	640	65	78	39	689
15			42	675	70	78	42	718
16			45	706	75	78	45	743
17			48	732	80	78	48	766
18			51	760	85	78	51	786
19			54	783			54	808
20			57	807			57	827
21			60	827			60	844
22							63	862
23							66	879
24							69	894
25							72	908
26							75	922
27							78	930
28							81	945
29							84	955
30							87	967

PRESSURE BREAKDOWN - CONT. TICKET #1945

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	976
32							93	983
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
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OK

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET № 1946

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

18

Elevation _____ Formation Miss Eff. Pay — Ft.

District Pratt Date 1/2/84 Customer Order No. —

P220

COMPANY NAME Pickrell Drilling Inc.

ADDRESS 205 Litwin Bldg.

LEASE AND WELL NO. Hufford "A" #1 COUNTY Ringman STATE Ks Sec. 23 Twp. 30 Rge. 7W

Mail Invoice To Same #1 "A" HUFFORD No. Copies Requested 5 4
Co. Name Address

Mail Charts To Same No. Copies Requested 5 4
Address

Formation Test No. 2 Interval Tested From 4150 ft. to 4165 ft. Total Depth 4165 ft.

Packer Depth 4145 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4150 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4154 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 4157 ft. Recorder Number 13552 Cap. 4050

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Pickrell Rig #10 Drill Collar Length 180 I. D. 2 1/4 in.

Mud Type Starch Viscosity 48 Weight Pipe Length — I. D. — in.

Weight 9.8 Water Loss 13.6 cc. Drill Pipe Length 3949 I. D. 3.8 in.

Chlorides 29,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make — Serial Number — Anchor Length 15 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Fair blow throughout first flow period
Weak blow died in 40 min on second flow period

Recovered 90 ft. of Drlg Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 6:30 ~~A.M.~~ P.M. Time Pick Up Tool 7:30 ~~A.M.~~ P.M. Time Off Location 4:00 A.M. ~~P.M.~~

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:00 A.M. ~~P.M.~~ Maximum Temperature 118°

Initial Hydrostatic Pressure ..... (A) 2144 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 116 P.S.I. to (C) 116 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 148 P.S.I.

Final Flow Period ..... Minutes 60 (E) 105 P.S.I. to (F) 105 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 116 P.S.I.

Final Hydrostatic Pressure ..... (H) 2093 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Bill Klwer 2376
Signature of Customer or his authorized representative

Western Representative Jim Wonder thank you

FIELD INVOICE

Open Hole Test	$ 595.50
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 595.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-2 Test Ticket No. 1946

Recorder No. 13547 Capacity Location Ft.

Clock No. — — — — Elevation Well Temperature °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2188	P.S.I.	Open Tool M	
B	First Initial Flow Pressure	104	P.S.I.	First Flow Pressure Mins.	Mins.
C	First Final Flow Pressure	104	P.S.I.	Initial Closed-in Pressure Mins.	Mins.
D	Initial Closed-in Pressure	151	P.S.I.	Second Flow Pressure Mins.	Mins.
E	Second Initial Flow Pressure	97	P.S.I.	Final Closed-in Pressure Mins.	Mins.
F	Second Final Flow Pressure	97	P.S.I.		
G	Final Closed-in Pressure	127	P.S.I.		
H	Final Hydrostatic Mud	2104	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	104
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	104
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 18 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	104
3	105
6	106
9	107
12	109
15	111
18	114
21	117
24	120
27	123
30	127
33	131
36	135
39	139
42	142
45	145
48	148
51	151
54	
57	
60	

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	97
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	97
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	97
3	
6	
9	
12	
15	97
18	97
21	98
24	99
27	100
30	101
33	102
36	103
39	104
42	105
45	106
48	107
51	108
54	109
57	110
60	112

cont'd

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Second Flow Pressure
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In
Breakdown: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	114
66	116
69	118
72	120
75	121
78	122
81	123
84	124
87	125
90	126
93	127
96	
99	
102	
105	
108	
111	
114	
117	
120	

TCC# 1946

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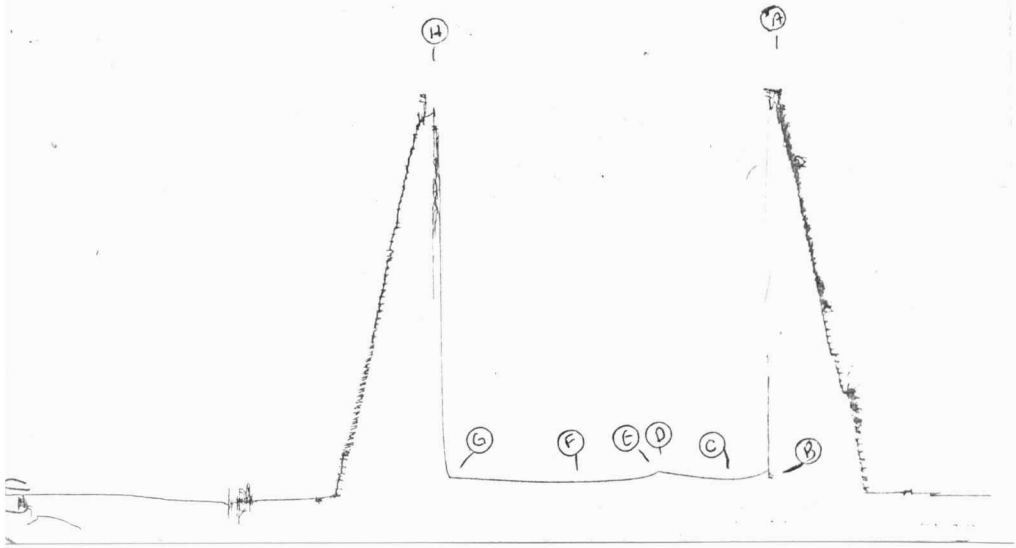

TCC# 1946

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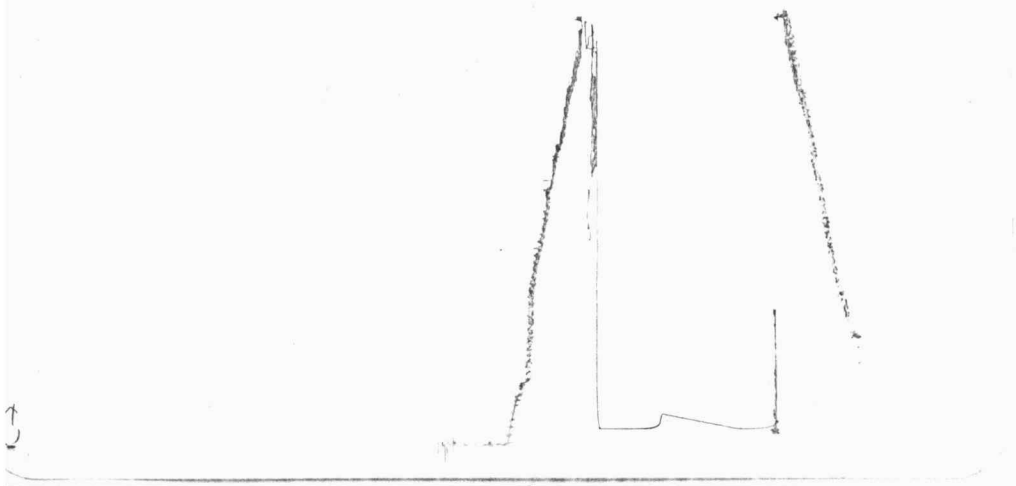
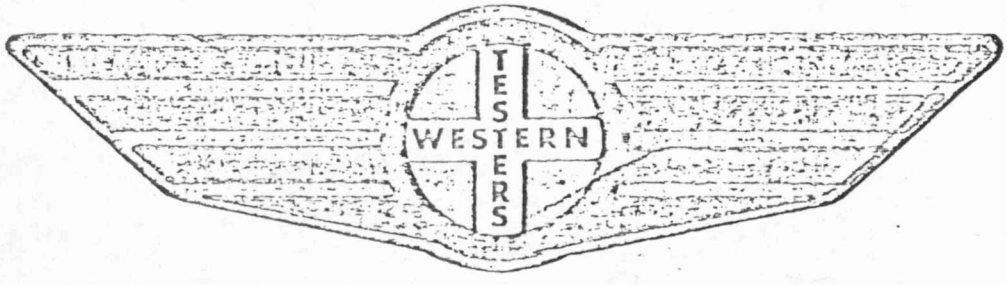


FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. #1 "A" HUFFORD Sec. 23 Twp. 30S Rge. 7W Test No. 2 Date 1/2/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 1/2/84 TICKET #1946
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "A" HUFFORD
WELL: 1 TEST: 2 GEOLOGIST: B. KLEVER
ELEVATION (KB): 0 FORMATION: MISSISSIPPI
SECTION: 23 TOWNSHIP: 30S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 4150 FT TO: 4165 FT TOTAL DEPTH: 4165 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4145 FT SIZE: 6 5/8 IN PACKER DEPTH: 4150 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL #10
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 9.8 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 29000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3949 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 15 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 F.H. IN

BLOW: FAIR BLOW THROUGHOUT FIRST FLOW PERIOD.
WEAK BLOW DIED IN 40 MINUTES ON SECOND FLOW.

RECOVERED: 90 FT OF: DRILLING MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: OUTSIDE RECORDER CLOCK STOPPED.

TIME SET PACKER(S): 9:00 P.M. TIME STARTED OFF BOTTOM: 1:00 A.M.
WELL TEMPERATURE: 118 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2188	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 104	PSI TO (C) 104	PSI
INITIAL CLOSED IN PERIOD	MIN: 51	(D) 151	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 97	PSI TO (F) 97	PSI
FINAL CLOSED IN PERIOD	MIN: 93	(G) 127	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2104	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 1/2/84 TICKET #1946
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "A" HUFFORD
WELL: 1 TEST: 2 GEOLOGIST: B. KLEVER
ELEVATION (KB): 0 FORMATION: MISSISSIPPI
SECTION: 23 TOWNSHIP: 30S
RANGE: 7W COUNTY: KINGMAN STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2188	PSI
(B) FIRST INITIAL FLOW PRESSURE:	104	PSI
(C) FIRST FINAL FLOW PRESSURE:	104	PSI
(D) INITIAL CLOSED-IN PRESSURE:	151	PSI
(E) SECOND INITIAL FLOW PRESSURE:	97	PSI
(F) SECOND FINAL FLOW PRESSURE:	97	PSI
(G) FINAL CLOSED-IN PRESSURE:	127	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2104	PSI
WELL TEMPERATURE:	118	'F

OPEN TOOL: 9:00 P.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	51 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	93 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	104	0	104	0	97	0	97
2	5	104	3	105	5	97	3	97
3	10	104	6	106	10	97	6	97
4	15	104	9	107	15	97	9	97
5	20	104	12	109	20	97	12	97
6	25	104	15	111	25	97	15	97
7	30	104	18	114	30	97	18	97
8			21	117	35	97	21	98
9			24	120	40	97	24	99
10			27	123	45	97	27	100
11			30	127	50	97	30	101
12			33	131	55	97	33	102
13			36	135	60	97	36	103
14			39	139			39	104
15			42	142			42	105
16			45	145			45	106
17			48	148			48	107
18			51	151			51	108
19							54	109
20							57	110
21							60	112
22							63	114
23							66	116
24							69	118
25							72	120
26							75	121
27							78	122
28							81	123
29							84	124
30							87	125

PRESSURE BREAKDOWN - CONT. TICKET #1946

PT	FIRST FLOW MIN	FIRST FLOW PRESSURE	INITIAL SHUT-IN MIN	INITIAL SHUT-IN PRESSURE	SECOND FLOW MIN	SECOND FLOW PRESSURE	FINAL SHUT-IN MIN	FINAL SHUT-IN PRESSURE
31							90	126
32							93	127
33								
34								
35								
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